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December 4, 1996

David Gaige, Air Leader Woodward-Clyde Consultants Stanford Place 3, Suite 1000 4582 South Ulster Street Denver, Colorado 80237

Dear David:

As I promised during our November 22nd Cheyenne meeting, please find enclosed a copy of my December 4, 1996 memo on the status of trona plants' particulate PSD status. I am also enclosing copies of the latest emission tables for all of the trona plants, which documents all the allowable particulate, NO_x and SO_2 emissions from the facilities. I hope this provides the information you need to work on Solvay's permit application. If there are questions, or if you need additional information, please feel free to contact me.

Sincerely,

Lee Gribovicz, P.E.

District Air Quality Engineer

cc: Dolly A. Potter, Environmental Manager
Solvay Minerals Incorporated
P.O. Box 1167
Green River, WY 82935

MEMORANDUM

To:

Trona Plant Files

Through:

Chuck Collins, Air Quality Administrator

Bernie Dailey, Air Quality Supervisor

From:

Lee Gribovicz, District Air Quality Engineer

Subject:

Particulate PSD Status

Date:

December 4, 1996

I have compiled the particulate PSD status of the five current trona plants (FMC, Gen-Chem, OCI, Solvay, Texasgulf) in this memo. The status is discussed for each of the facilities as of this date, in the following sections.

FMC

As of this writing, the latest FMC PSD particulate permit is CT-1187, issued for construction of the Mono-12 Loadout Baghouse in November '96. After the 1977 effective date of the PSD regulations, FMC also received permit CT-827 for a sodium bicarbonate plant in March '89; MD-120 for a mono dual ore crusher system in March '90, CT-1045 for their mine water plant in September '93, and CT-1134 for a new sesqui fluid bed dryer in March '95.

Under CT-827 FMC added 20.59 TPY of particulate to the Green River plant, and they added another 13.14 TPY emissions to the plant under MD-120. The net PSD increase under the original CT-1045 permit was 12.93 TPY, but the size of three emission points (MW-1, 2 & 4) was subsequently adjusted, resulting in a total reduction of 2.68 pph particulate allowable emission rate (11.74 TPY). Thus the actual PSD increment consumption under CT-1045 was only 1.19 TPY. The net increase under CT-1134 was 1.55 TPY, and the CT-1187 particulate increase was 7.54 TPY. Thus as shown in Table A, the net PSD increase for FMC additions to the plant from all applicable permits now totals to 44.01 TPY of particulate. These emission additions are the only modifications undertaken by FMC since the effective date of the PSD regulations (8/7/77) which haven't been accompanied by a totally offsetting "contemporaneous decrease" in emissions. Therefore, these emissions represent the total PSD particulate increment consumption at the FMC plant to date.

General Chemical

As of this writing, the latest General Chemical permit dealing with particulate is MD-129A, issued for debottlenecking their Green River plant in January '96. The original MD-129 permit considered a new dryer, identified as IE-1, but that source was never built. The revised permit allowed construction of the GR-3-Q dryer (completed), with an allowable emission rate of 1.5 pph (6.57 TPY). After the 1977 effective date of the PSD regulations, General Chemical also received modification permit MD-121 for a replacement crusher at GR-3-A in March '90; a waiver for FD-617 bulk truck loadout baghouse in September '90, permit MD-198 for revision of the GR-1-B(1) product loadout system in May '94, a waiver for the reconstruction of CH-1 coal

handling baghouse in October '95, and a waiver for the crusher replacement and reconstruction of baghouses GR-1-A, GR-3-A and A-305 in the crusher building in December '95.

Under MD-121/OP-227 General Chemical simply replaced the GR-III crusher, while the existing GR-3-A baghouse had its allowable reduced from 3.0 to 2.5 pph. Thus the source was an existing emission point prior to the effective date for PSD applicability and the emissions do not consume increment. The September '90 bulk truck loadout waiver for the FD-617 baghouse added 0.23 pph, or 1.01 TPY, even though there was an unquantified reduction in fugitive emissions from this project. Under MD-198 the rail loadout was modified and GR-1-B(1) baghouse reconstructed, but the baghouse had its allowable reduced from 2.28 to 1.39 pph under this action. As above, this source was an existing emission point prior to the effective date for PSD applicability and the emissions do not consume increment. No emission changes were associated with the waivers for the CH-1 or the crusher baghouses reconstruction. And as noted above, under MD-129/MD-129A, there was a 6.57 TPY particulate increase with the installation of GR-3-Q. Thus as shown in Table B, the net PSD increase for General Chemical additions to the plant from all applicable permits now totals to 7.58 TPY of particulate. These emission additions are the only modifications undertaken by General Chemical since the effective date of the PSD regulations (8/7/77), therefore these emissions represent the total PSD particulate increment consumption at the General Chemical plant to date.

<u>OCI</u>

As of this writing, the latest particulate OCI PSD permit is MD-271, issued for adjusting the instantaneous maximum throughput rate of 5ES-10 calciner, in May '96. After the 1977 effective date of the PSD regulations, OCI also has received permit CT-251 (OP-98) for surface facilities associated with a second plant mine shaft in September '79; permit MD-96 (OP-225) for a new Unit 5 crusher system in January '89, and permit MD-133 (OP-256) for debottlenecking modifications in December '90.

Under CT-251 OCI constructed three point sources (DC-36, 37 and 38) which added 16.34 TPY of particulate (original DC-36 allowable reduced under MD-133 from 1.0 to 0.73 pph) to the Big Island plant. The 2.80 TPY added with construction of the DC-19 baghouse under MD-96 (original DC-19 allowable reduced under MD-133 from 0.7 to 0.64 pph), was offset by an approximate equal reduction from control of former fugitive emissions at that site. The net increase under the MD-133 permit was 5.21 TPY from DC-100 (original allowable of 3.12 pph was subsequently adjusted down to 1.19 pph in OP-256 to reflect the reduced volume of the final system design). There were no particulate emission changes included in MD-271, therefore as shown in Table C, the net PSD increase for OCI additions to the plant from all applicable permits now totals to 21.55 TPY of particulate. These emission additions are the only modifications undertaken by OCI since the effective date of the PSD regulations (8/7/77) which haven't been accompanied by a totally offsetting

"contemporaneous decrease" in emissions. Therefore, these emissions represent the total PSD particulate increment consumption at the OCI plant to date.

Solvay

Because this plant was not constructed until 1982, after the 1977 effective date of the PSD regulations, all of the emissions from the facility consume PSD increment. As of this writing, permits that Solvay has received include CT-234/234A/234A2 (OP-154) issued for the initial one million TPY soda ash plant, CT-643/643A (OP-181) issued for construction of the Alkaten production facility, CT-946 issued for a calcined trona project (project was mostly abandoned), MD-117 issued for a caustic/sodium sulfite production facility and a new fluid bed soda ash drier, MD-132 issued for the construction of the third "C" soda ash product line, and MD-229 issued for conversion of the "A" & "B" trona calciners to gas firing. The latest particulate permit Solvay has is MD-282, issued for construction of a meta-bisulfite production facility, in May '96.

The MD-282 permit analysis provides an updated analysis of the PSD particulate status for the Solvay Green River plant. That permit shows 481.51 TPY of particulate emissions permitted from the plant, therefore these emissions represent the total PSD particulate increment consumption at the Solvay plant to date. As shown in Table D, the plant currently has 0.98 TPY of particulate that has not yet been modeled for increment consumption since the last analysis which was conducted for CT-946. When Solvay next completes a "major modification" such that the cumulative total of 15 TPY PM $_{10}$ (or 25 TPY TSP) is exceeded, they will be required to remodel their entire plant particulate emissions for determining compliance with PSD increments.

Texasqulf

As of this writing, the latest particulate Texasgulf permit is MD-230, issued for adjusting the instantaneous maximum throughput rate of the two plant calciners, in June '95. After the 1977 effective date of the PSD regulations, Texasgulf also has received permit CT-508/508A (OP-165) for construction of a fluid bed dryer in August '83; permit MD-69 (OP-222) for debottlenecking modifications in May '87; CT-945 (OP-255) for construction of a caustic soda production facility in September '91; and permit MD-177 issued for conversion of their two trona calciners to gas firing in September '92.

Under CT-508/508A Texasgulf constructed source #24, a fluid bed dryer, which added 4.38 TPY of particulate when it had its allowable raised to 1.00 pph under the CT-508A amendment. Under MD-69, Texasgulf raised the plant capacity to 1.3 MM TPY with debottlenecking activities, but they retained existing allowable emission limits for all existing sources. The original proposal included additional emission points for a cooler and a bulk truck loadout, but Texasgulf subsequently decided that neither of these new point sources were necessary. Consequently MD-69 had no additional emissions associated with it. The net particulate increase under the CT-945 permit was originally higher

(5.30 TPY), but dropped to 4.82 TPY in the operating permit as Texasgulf eliminated plans for a carbon regenerator incinerator (0.11 pph) in the final system design. There were no particulate emission changes included in permits MD-177 or MD-230, as Texasgulf retained the existing allowable emission limits for both the calciner gas conversion and the instantaneous throughput increase for these kilns. Therefore as shown in Table E, the net PSD increase for Texasgulf additions to the plant from all applicable permits now totals to 9.20 TPY of particulate. These emission additions are the only modifications undertaken by Texasgulf since the effective date of the PSD regulations (8/7/77) which haven't been accompanied by a totally offsetting "contemporaneous decrease" in emissions. Therefore, these emissions represent the total PSD particulate increment consumption at the Texasgulf plant to

	Average Actu	al Emissions	Permitted	Emission	Net Cl	iange
Source	2 Year Avg	Record Year	Existing	Modified	Permitted	Actual
	Co	ontemporaneous	Decreases			
RA-24 A&B (CT-1045)	90.96	'90-91	197.10	43.80	-153.30	-47.16
RA-14 (CT-1134)	0.34	'92-93	17.52	0.00	-17.52	-0.34
PP-25 (CT-1134)	28.24	192-93	65.70	15.02	-50.68	-13.22
Mono-7 (CT-1187)	4.85	' 93 - 94	8.76	0.00	-8.76	-4.85
Mono-9 (CT-1187)	6.18	193-94	8.76	6.61	-2.15	0.43
Total Decreases	130.57	n.a.	297.84	65.43	-232.41	-65.14
		PSD Incre	ases			
CT-827 Additions	n.a.	n.a.	20.59	20.59	0.00	20.59
MD-120 Additions	n.a.	n.a.	13.14	13.14	0.00	13.14
CT-1045 Additions	n.a.	n.a.	n.a.	60.09	60.09	60.09
CT-1045 Adjustments	n.a.	n.a.	n.a.	-11.74	-11.74	-11.74
CT-1134 Additions	n.a.	n.a.	n.a.	15.11	15.11	15.11
CT-1187 Additions	n.a.	n.a.	n.a.	11.96	11.96	11.96
Total Increases	0.00	n.a.	33.73	109.15	75.42	109.15
Subtotal, Increment Consuming Emissions -156.99						44.01
Emissions Considered in	n Previous Inc	rement Analyse	es (MD-120 Pe	ermit)		33.73
Current Net Emissions Change (since last PSD Analysis)						10.28

	Average Actu	al Emissions	Permitted	l Emission	Net Ch	ange
Source	2 Year Avg	Record Year	Existing	Modified	Permitted	Actual
	Co	ontemporaneous	Decreases			
None Documented	0.00	n.a.	0.00	0.00	0.00	٥.ر
Total Decreases	0.00	n.a.	0.00	0.00	0.00	0.00
		PSD Incre	ases			
9/90 Waiver (FD-617)	n.a.	n.a.	0.00	1.01	1.01	1.01
MD-129A (GR-3-Q)	n.a.	n.a.	0.00	6.57	6.57	6.57
Total Increases	0.00	n.a.	0.00	7.58	7.58	7.58
Subtotal, Increment Co	nsuming Emissi	ons			7.58	7.58
missions Considered i			es (None Co	mpleted)		0.00
Current Net Emissions						7.58

Tabl	e C: OCI PSD	Net Emissions	s Changes (Pa	articulate T	PY)		
	Average Actu	al Emissions	Permitted	Permitted Emission		Net Change	
Source	2 Year Avg	Record Year	Existing	Modified	Permitted	Actual	
	Co	ontemporaneous	Decreases				
Fugitive (MD-96)	2.80	'87-88	2.80	0.00	-2.80	-2.80	
Total Decreases	2.80	n.a.	2.80	0.00	-2.80	-2.80	
		PSD Incre	eases				
CT-251 (DC-36,37,38)	n.a.	n.a.	0.00	16.34	16.34	16.34	
MD-96 (DC-19)	n.a.	n.a.	0.00	2.80	2.80	2.80	
MD-133 (DC-100)	n.a.	n.a.	0.00	5.21	5.21	5.21	
Total Increases	0.00	n.a.	0.00	24.35	24.35	24.35	
Subtotal, Increment Consuming Emissions 21.55						21.55	
Emissions Considered in Previous Increment Analyses (MD-120 Permit)						0.00	
Current Net Emissions Change (since last PSD Analysis)						21.55	

of the control of the	Average Actu	al Emissions	Permitted	Emission	Net Change	
Source	2 Year Avg	Record Year	Existing	Modified	Permitted	Actual
	Co	ontemporaneous	Decreases			,
QD #12,23&29 (MD-282)	2.05	193-94	7.01	0.00	-7.01	-2.05
AQD #17 (MD-282)	114.54	'93-94	134.47	97.67	-36.80	-16.87
Total Decreases	116.59	n.a.	141.48	97.67	-43.81	-18.92
	1-11-11-11-11-11-11-11-11-11-11-11-11-1	PSD Incre	ases			
MD-282	n.a.	n.a.	0.00	19.90	19.90	19.90
Total Increases	0.00	n.a.	0.00	19.90	19.90	19.90

Table E	: Texasgulf P	SD Net Emissi	ons Changes	(Particulate	TPY)	
	Average Actual Emissions		Permitted Emission		Net Change	
Source	2 Year Avg	Record Year	Existing	Modified	Permitted	Actual
	Co	ontemporaneous	Decreases		,	
None Documented	0.00	n.a.	0.00	0.00	0.00	0.00
Total Decreases	0.00	n.a.	0.00	0.00	0.00	0.00
		PSD Incre	eases			
CT-508/508A	n.a.	n.a.	0.00	4.38	4.38	4.38
CT-945	n.a.	n.a.	0.00	4.82	4.82	4.82
Total Increases	0.00	n.a.	0.00	9.20	9.20	9.20
Subtotal, Increment Consuming Emissions 9.20						9.20
Emissions Considered in Previous Increment Analyses (None Completed)						0.00
Current Net Emissions Change (since last PSD Analysis)						9.20

TABLE I
Texasgulf Soda Ash Plant Pollutant Emission Rates (pph)

			<u> Pollutants</u>	
ource	Equipment		Sulfur	Nitrogen
	Name	Particulate	Dioxide	Oxides
umber	Name			
	"Current P	lant Emission	Sources"	
1	Trona Transfer Tower	1.03	-	-
3	Ore Screening & Crushing	2.14	-	-
4	#1 Ore Calciner	15.80	3.00	140.00
5	#2 Ore Calciner	15.80	3.00	140.00
7	#1 Product Dryer	3.94	-	-
8	#2 Product Dryer	3.94	-	-
9	#1 Product Sizing	2.57	-	-
	#2 Product Sizing	2.57	-	-
10	Product Handling Dust Control	2.57	-	-
11	Product Storage Dust Control	2.57	-	-
12	Railcar Loadout Dust Control	1.31	-	-
13		35.85	71.70	250.95
14	#1 Coal Boiler	35.85	71.70	250.95
15	#2 Coal Boiler	0.43	_	_
16	Boiler Ash Dust Control	0.44	_	_
17	Vacuum Sweeping System	1.33	_	<u>-</u>
18	Mine Skip Unloading	0.07	_	-
22	Perlite Unloading Bin	0.07	_	-
23	Lime Silo #1		_	_
24	Fluid Bed Dryer	1.00	_	-
27	Lime Silo #2	0.07	-	28.00
C-1	Caustic Plant Boiler	-	-	20.00
C-3	Lime Silo/Feed Bin Vents	0.67	-	_
C-4	Lime Slaker Vent	0.43	-	
	a plant Courges	130.45	149.40	809.96
rotal,	Current Plant Sources	(571.4 TPY		(3547.6 TPY
	"C	alciner Change	es"	
				140.00
4	#1 Ore Calciner coal burners	(remove)	-3.00	-140.00
5	#2 Ore Calciner coal burners	(remove)	-3.00	-140.00
4	#1 Ore Calciner gas burners	(add)	. 0.00	30.00
5	#2 Ore Calciner gas burners	(add)	0.00	30.00
m - 4: - 4	, Calciner Changes	0.00	-6.00	-220.00
Total	, Calciner changes	(0.0 TPY	(-26.3 TPY)	(-963.6 TP)
	Total, Plant Emissions	130.45	143.40	589.96

TABLE I

FMC Soda Ash Plant Pollutant Emission Rates (pph)

			Pollutants	
Source	Equipment		Sulfur	Nitrogen
Number	Description	Particulate	Dioxide	Oxides
	"Current Plant Poin	t Emission Sourc	ces"	
PA-4	sesqui hammermill	1.25	_	-
PA-4 PA-5	sesqui ore screen	1.25	-	_
PA-6	sesqui dissolver vent #1	1.00	_	_
PA-7	sesqui dissolver vent #2	1.00	_	_
PA-7 PA-8	sesqui dissolver vent #3	1.00	_	-
PA-9	sesqui dissolver vent #4	1.00	-	-
RA-1	"baby" sesqui calciner	10.00	-	2.55*
RA-15	sesqui steam tube calciner R-1	# -	-	
RA-15	sesqui steam tube calciner R-7	4.00	_	-
RA-22	sesqui gas fired calciner R-9	32.00	_	7.98*
RA-23	sesqui qas fired calciner R-13	35.00	-	11.40*
RA-24	sesqui gas fired calciner R-15	10.00	-	15.96*
RA-25	sesqui fluid bed calciner R-5	26.50	-	-
RA-26	sesqui fluid bed calciner R-6	12.00	-	-
RA-28	sesqui bagging operation	1.29	-	-
RA-29	sesqui fluid bed calciner	3.45	-	-
RA-33	sesqui storage silo	3.00	-	-
PP-11	STPP phosphorus furnace #2	11.00	-	0.18*
PP-12	STPP phosphorus furnace #1	11.00	-	0.18*
PP-20	STPP rotary dryer	5.00	-	7.49*
PP-21	STPP spray dryer	15.00	-	3.36*
PP-24	STPP high density screening	3.60	-	-
PP-25	STPP secondary calciner	3.43	-	1.22*
PP-26	STPP medium density screening	0.90	-	-
PP-27	STPP light density screening	0.00	-	
PP-28	STPP product sizing	4.00	-	-
MONO-1	mono dissolver	0.53	-	-
MONO-2	mono primary crusher	2.60	_	-
MONO-3	mono ore distribution	1.30	-	-
MONO-4	mono secondary crusher #1	2.00	→	-
MONO-5	mono calciner #1	53.00	-	20.63*
MONO-6	mono fluid bed dryer #1	20.00	_	-
MONO-8	mono stockpile reclaim #1	1.90	-	-
MONO-9	mono bulk railcar loadout	1.51	-	-
MONO-10	mono bulk truck loadout	1.70	-	-
MONO-11	mono stockpile reclaim #2	3.00	=	-
MONO-12	mono screening & loadout	2.73	-	-
NS-2A	mono powerhouse coal receiving	0.25	-	-
NS-2B	mono powerhouse coal receiving	0.25	-	-
NS-3	mono calciner #2	41.00	-	41.40*
NS-4	mono scondary crusher #2	1.00	-	-
NS-5	mono disolver #2	2.70	-	-
NS-6	mono fluid bed dryer #2	20.00	-	-
NS-7	mono plant coal receiving	0.50	-	-
NS-8	mono plant coal housekeeping	0.50	-	-
NS-9	mono plant coal transfer	0.50	-	-
NS-10	mono powerhouse flyash silo #1	0.34	-	-
NS-11	mono powerhouse flyash silo #2	0.34	-	_

(continued next page)

TABLE I (continued)

FMC Soda Ash Plant Pollutant Emission Rates (pph)

Number Description Particulate Dioxide Oxides RD-2 solution mining lime storage bin 1.50				Pollutants	
Number	Source	Equipment		Sulfur	Nitrogen
RD-2 solution mining lime storage bin 1.50 - RD-3 solution mining lime slaker 1.00 - - -			Particulate	Dioxide	Oxides
RD-3 solution mining lime slaker 1.00 - -			1.50	-	-
SM-1 solution mining lime kiln 14.00 9.60 32.40 SM-2 solution mining load storage 0.24			1.00	-	-
SM-2 solution mining coal storage 0.24 - SM-3 solution mining lime storage 0.24 - SM-3 SM-3 solution mining lime storage 0.24 - SM-3 SM-3 SM-3 SM-3 SM-3 SM-3 SM-3 SM			14.00	9.60	32.40
SN-3 solution mining lime storage 0.24 -				-	-
### 1				_	-
### 1.70				-	
NACN-1 cyanide plant incinerator stack NACN-2 cyanide plant emergency flare NACN-2 cyanide plant flare pilot lights NACN-2 cyanide plant air preheater NACN-3 cyanide plant air preheater NACN-3 cyanide plant air preheater NACN-1 mine water lime bin vent NACN-3 mine water lime bin vent NACN-3 mine water lime bin vent NACN-3 mine water product housekeeping NACN-3 mine water product housekeeping NACN-4 mine water gas fired boiler NACN-5 mine water gas fired boiler NACN-1 mono powerhouse coal boiler #1				-	-
NACN-2 cyanide plant emergency flare			=	_	28.44
NACN-2 cyanide plant flare pilot lights			_	_	2.75**
NACN-2 Cyanide plant air preheater - 0.55 MW-1 mine water lime bin vent 0.34			_	_	
Water Company Water Wa			_	_	
MW-2 mine water lime slaker 0.19			0.34		-
MW-3 mine water fluid bed dryer 9.89	MW-1			_	_
MW-4 mine water product housekeeping 0.62 - 31.50 MW-5 mine water gas fired boiler ## - 31.50 NS-1A mono powerhouse coal boiler #1 45.00 1064.40 620.90 NS-1B mono powerhouse coal boiler #2 45.00 1064.40 620.90 PH-1A sesqui powerhouse gas frd boiler ## - 38.36 PH-1B sesqui powerhouse gas frd boiler ## - 38.36 PH-2 sesqui powerhouse gas frd boiler ## - 38.36 PH-3 sesqui powerhouse gas frd boiler ## - 76.73 Total, Current Plant Point Sources 478.04 2138.40 1641.70 (2093.8 TPY) (9366.2 TPY) (7190.6 "Current Plant Fugitive Emission Sources" Non-Attainment Sesqui Loadout 35.79	MW-2			-	-
MW-5 mine water gas fired boiler ## - 31.50 NS-1A mono powerhouse coal boiler #1 45.00 1064.40 620.90 NS-1B mono powerhouse coal boiler #2 45.00 1064.40 620.90 NS-1B mono powerhouse gas frd boiler ## - 38.36 PH-1B sesqui powerhouse gas frd boiler ## - 38.36 PH-1B sesqui powerhouse gas frd boiler ## - 38.36 PH-2 sesqui powerhouse gas frd boiler ## - 76.73 Total, Current Plant Point Sources #78.04 2138.40 1641.70 "Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46	MW - 3			-	-
NS-1A mono powerhouse coal boiler #1	MW-4	mine water product housekeeping		-	-
NS-1A mono powerhouse coal boiler #2 45.00 1064.40 620.96 NS-1B mono powerhouse coal boiler #2 45.00 1064.40 620.96 NS-1B mono powerhouse gas frd boiler ## - 38.36 PH-1B sesqui powerhouse gas frd boiler ## - 38.36 PH-2 sesqui powerhouse gas frd boiler ## - 38.36 PH-3 sesqui powerhouse gas frd boiler ## - 76.73 Total, Current Plant Point Sources 478.04 2138.40 1641.76 (2093.8 TPY) (9366.2 TPY) (7190.6 "Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46 Non-Attainment Mono Stockpile 65.08 Non-Attainment Mono Stockpile 21.91 Non-Attainment Sesqui Stockpile 21.91 Truck Hauling Tailpipe Emissions 0.02 - 0.3 Railroad Locomotive Emissions 0.06 - 9.0 Surface Heavy Equipment Emissions 10.5 Mine Shaft Vents, Underground Exhaust 2.2 Total, Current Plant Fugitive Sources 176.51 0.00 22.2 Grand Total, All Plant Emissions 654.55 2138.40 1663.9	MW-5			-	
Non-Attainment Coal Stockpile 17.46 -	NS-1A				
PH-1A Sesqui powerhouse gas frd boiler	NS-1B	mono powerhouse coal boiler #2	45.00		620.90
PH-1B sesqui powerhouse gas frd boiler ## - 38.36 PH-2 sesqui powerhouse gas frd boiler ## - 76.73 Total, Current Plant Point Sources 478.04 2138.40 1641.70 "Current Plant Point Sources "Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46 - - Non-Attainment Mono Stockpile 65.08 - - Non-Attainment Sesqui Stockpile 21.91 - - Non-Attainment Wind Erosion/Road Dust 36.19 - - Truck Hauling Tailpipe Emissions 0.02 - 0.3 Railroad Locomotive Emissions 0.06 - 9.0 Surface Heavy Equipment Emissions - - 10.5 Mine Shaft Vents, Underground Exhaust - - 2.2 Total, Current Plant Fugitive Sources 176.51 0.00 22.2 (773.1 TPY) (0.0 TPY) (97.5	PH-1A	sesqui powerhouse gas frd boiler	## -	38.36	
PH-2 sesqui powerhouse gas frd boiler ## - 76.73 38.36 PH-3 sesqui powerhouse gas frd boiler ## - 76.73 16.1.70 Total, Current Plant Point Sources (2093.8 TPY) 478.04 2138.40 1641.70 "Current Plant Fugitive Emission Sources" "Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46	PH-1B	sesqui powerhouse gas frd boiler	## -	38.36	
## - 76.73 Total, Current Plant Point Sources 478.04 2138.40 1641.70 (2093.8 TPY) (9366.2 TPY) (7190.6 "Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46		sesqui powerhouse gas frd boiler	## -	38.36	
Total, Current Plant Point Sources 478.04 2138.40 1641.76 (2093.8 TPY) (9366.2 TPY) (7190.6 (7190.6 (2093.8 TPY)) (7190.6 (2093.8		sesqui powerhouse gas frd boiler	## -	76.73	
"Current Plant Fugitive Emission Sources" Non-Attainment Coal Stockpile 17.46			478.04	2138.40	1641.70
Non-Attainment Coal Stockpile 17.46	2000-7		(2093.8 TPY)	(9366.2 TPY)	(7190.6 TPY
Non-Attainment Sesqui Loadout Non-Attainment Mono Stockpile Non-Attainment Mono Stockpile Non-Attainment Sesqui Stockpile Non-Attainment Wind Erosion/Road Dust Truck Hauling Tailpipe Emissions Railroad Locomotive Emissions Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources Grand Total, All Plant Emissions Grand Total, All Plant Emissions 35.79		"Current Plant Fugiti	ive Emission Sou	rces"	
Non-Attainment Sesqui Loadout Non-Attainment Mono Stockpile Non-Attainment Sesqui Stockpile Non-Attainment Wind Erosion/Road Dust Truck Hauling Tailpipe Emissions Railroad Locomotive Emissions Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources Grand Total, All Plant Emissions Grand Total, All Plant Emissions 654.55 2138.40 1663.9	Non-Atta	ainment Coal Stockpile	17.46	-	-
Non-Attainment Mono Stockpile Non-Attainment Sesqui Stockpile Non-Attainment Wind Erosion/Road Dust Truck Hauling Tailpipe Emissions Railroad Locomotive Emissions Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources Grand Total, All Plant Emissions 654.55 2138.40			35.79	-	-
Non-Attainment Sesqui Stockpile Non-Attainment Wind Erosion/Road Dust Truck Hauling Tailpipe Emissions Railroad Locomotive Emissions Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources Grand Total, All Plant Emissions 21.91			65.08	-	→
Non-Attainment Wind Erosion/Road Dust Truck Hauling Tailpipe Emissions Railroad Locomotive Emissions Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources 176.51 (773.1 TPY) (0.0 TPY) (97.5) Grand Total, All Plant Emissions 654.55 2138.40 1663.9	Non-Atta	ainment Sesqui Stockpile	21.91	-	-
Truck Hauling Tailpipe Emissions 0.02 - 0.3 Railroad Locomotive Emissions 0.06 - 9.0 Surface Heavy Equipment Emissions - 10.5 Mine Shaft Vents, Underground Exhaust - 2.2 Total, Current Plant Fugitive Sources 176.51 0.00 22.2 (773.1 TPY) (0.0 TPY) (97.5	Non-Atta	ainment Wind Erosion/Road Dust	36.19	-	-
Railroad Locomotive Emissions 0.06 - 9.0 Surface Heavy Equipment Emissions - 10.5 Mine Shaft Vents, Underground Exhaust - 2.2 Total, Current Plant Fugitive Sources 176.51 0.00 22.2 (773.1 TPY) (0.0 TPY) (97.5			0.02	=	0.37
Surface Heavy Equipment Emissions Mine Shaft Vents, Underground Exhaust Total, Current Plant Fugitive Sources (773.1 TPY) Grand Total, All Plant Emissions - 10.5 - 2.2 - 2.2 - (773.1 TPY) (0.0 TPY) (97.5			0.06	-	9.02
Mine Shaft Vents, Underground Exhaust - 2.2 Total, Current Plant Fugitive Sources 176.51 0.00 22.2 (773.1 TPY) (0.0 TPY) (97.5) Grand Total, All Plant Emissions 654.55 2138.40 1663.9			-	***	10.59
Total, Current Plant Fugitive Sources 176.51 0.00 22.2 (773.1 TPY) (0.0 TPY) (97.5 (773.1 TOTAL, All Plant Emissions 654.55 2138.40 1663.9			_	-	2.27
(773.1 TPY) (0.0 TPY) (97.5 (773.1 TPY) (0.0 TPY) (0			176.51	0.00	22.25
Grand Total, All Plant Emissions	Total,	current Plant Fugitive Bources			(97.5 TPY
Grand Total, All Plant Emissions					
	Grand To	otal, All Plant Emissions	654.55 (2866 9 TPY)	2138.40 (9366.2 TPY)	1663.95 (7288.1 TP)

(2866.9 TPY) (9366.2 TPY) (7288.1 TPY)

TABLE I FMC Soda Ash Plant Pollutant Emission Rates (pph)

"Footnotes"

- # allowable for RA-15 is 4.0 pph, but under the RA-29 fluid bed permit, only one of the two steam tube calciners (RA-15 & RA-16) are allowed to operate at any one time
- ## gas fired boilers have particulate allowables under Wyoming Air Quality Standards & Regulations Section 25, but actual emissions are negligible
- \star allowable $\mathrm{NO_x}$ limit emission rate established per 2/19/93 FMC emission factors
- ** short term allowable for NACN-2 is 502.28 pph, for start up conditions occuring for no more than 48 hours per year, resulting in 12.06 TPY of NO_x , or 2.75 pph averaged over full year (8760 hours) operation

TABLE I

General Chemical Soda Ash Plant Pollutant Emission Rates (pph)

			Pollutants	
Source	Equipment		Sulfur	Nitrogen
Number	Description	Particulate	Dioxide	Oxides
Namber				
	"Current Plant Point	t Emission Sourc	es"	
GR-1-A	GR-I&II crusher	3.00	-	-
GR-1-A GR-1-B1	GR-I&II bulk rail loadout bins	1.39	-	-
GR-1-B1	GR-I&II bulk rail loadout bldg	1.01	_	-
GR-1-62 GR-1-C	GR-I&II gas fired calciner #1	15.00	-	8.70
GR-1-C	GR-I&II gas fired calciner #2	15.00	-	8.70
GR-1-E	GR-I&II gas fired calciner #3	15.00	-	8.70
GR-1-E GR-1-F	GR-I&II steam tube dryer #1	4.00	-	-
GR-1-F	GR-I&II steam tube dryer #2	4.00	-	-
GR-1-G GR-1-H	GR-I&II steam tube dryer #3	4.00	-	-
GR-1-II	GR-I&II product screening	2.00	-	-
GR-1-J2	GR-I&II product screening	2.00	-	-
GR-1-02 GR-2-A	GR-I&II ore gallery hskpng	2.95	-	-
GR-2-A	product storage silos #1, 2 & 3	3.00	-	-
GR-2-B GR-2-C	GR-I&II gas fired calciner #4	15.00	-	8.70
GR-2-C	GR-I&II gas fired calciner #5	15.00	-	8.70
GR-2-E1	GR-I&II dissolver vent #1	3.00	_	-
GR-2-E1 GR-2-E2	GR-I&II dissolver vent #2	3.00	-	-
GR-2-E2 GR-2-F	GR-I&II steam tube dryer #4	4.00	_	· -
GR-2-F GR-2-G	GR-I&II steam tube dryer #5	4.00	-	-
	GR-I&II steam tube dryer #6	4.00	-	-
GR-2-H	GR-I&II product screening	1.50	-	_
GR-2-J	lime storage bin #1	0.08	-	-
GR-2-0	GR-III crusher	2.50	-	-
GR-3-A GR-3-B	GR-III transfer bldg hskpng	1.00	-	=
	GR-III ore gallery hskpng	1.00	-	_
GR-3-C	GR-III Gre garrery months #1	37.90	-	15.06*
GR-3-D	GR-III gas fired calciner #2	37.90	-	15.06*
GR-3-E GR-3-F	GR-III dissolver vent #1	2.00	-	-
	GR-III dissolver vent #2	2.00	-	-
GR-3-G GR-3-H	GR-III disserver vans went	0.00	-	-
GR-3-H GR-3-K	GR-III steam tube dryer #1	1.50	-	-
GR-3-K GR-3-L	GR-III steam tube dryer #2	1.50	-	-
GR-3-H GR-3-M	GR-III steam tube dryer #3	1.50	=	-
GR-3-M GR-3-N	GR-III steam tube dryer #4	1.50	-	-
GR-3-N GR-3-O	lime storage bin #2	0.08	-	-
GR-3-0 GR-3-P	GR-III steam tube dryer #5	1.50	-	-
	GR-III steam tube dryer #6	1.50	-	-
GR-3-Q	GR-III Steam tabe allow were GR-III dryer tank vents	2.00	-	-
GR-3-R	GR-III dryer tank venes GR-III product screening	3.00	-	-
GR-3-U	GR-III product screening	3.00	-	-
GR-3-V	coal unloading hskpng	1.70	-	_
CH-1	coal receiving hskpng	1.00	-	-
CH-2	stockpile ore reclaime hskpng	1.40	-	_
RO-1	crusher bldg ore screens	1.51	-	-
A-305	stockpile ore reclaim screens	1.28	-	-
A-309	crusher bldg hskpng	2.00	-	-
FD-120	cranier prad mybud			

(continued next page)

TABLE I (continued) General Chemical Soda Ash Plant Pollutant Emission Rates (pph)

		Pollutants	
Source Equipment		Sulfur	Nitrogen
Number Description	Particulate	Dioxide	Oxides
FD-612 product storage silo #4 vents	1.50	-	-
FD-613 product storage silo #5 vents	0.90	-	-
FD-614 product storage silo #5 reclaim	1.00	-	-
FD-615 product storage silo #4 reclaim	1.00	-	<u>-</u>
FD-616 product loadout transfer bldg	0.80	-	-
FD-617 bulk truck loading station	0.23	-	-
GR-1-O "A" gas fired boiler	#	-	61.41
GR-1-P "B" gas fired boiler	#	-	61.41
GR-2-L "C" coal fired boiler	50.00	640.80	375.90
GR-3-W "D" coal fired boiler	80.00	1056.00	616.00
			1100 34
Total, Current Plant Point Sources	367.63	1696.80	1188.34
	(1610.2 TPY)	(7432.0 TPY)	(5204.9 TPY)
"Current Plant Fugit: Non-Attainment Distressed Area Non-Attainment Trona Stockpile Non-Attainment Coal Stockpile Mine Shaft Diesel Equipment Exhaust	ive Emission Sour 31.00 23.88 0.95	- - - -	- - - 169.92
			160 00
Total, Current Plant Fugitive Sources	55.83 (244.5 TPY)	0.00 (0.0 TPY)	169.92 (744.3 TPY)
Grand Total, Current Plant Emissions	423.46 (1854.8 TPY)	1696.80 (7432.0 TPY)	1358.26 (5949.2 TPY)
"Changes Considere GR-1-O "A" gas fired boiler (removed) GR-1-P "B" gas fired boiler (removed) GR-3-X "E" gas fired boiler	d In This Analys # # #	is" - - -	-61.41 -61.41 49.00
GR-J-A B GUB LILUA DOLLAR			
Net, Proposed Plant Changes	0.00 (0.0 TPY)	0.00 (0.0 TPY)	-73.82 (-323.3 TPY)
		=======================================	=======================================
Grand Total, All Plant Emissions	423.46 (1854.8 TPY)	1696.80 (7432.0 TPY)	1284.44 (5625.9 TPY)

TABLE I General Chemical Soda Ash Plant Pollutant Emission Rates (pph)

"Footnotes"

- # gas fired boilers have particulate allowables under Wyoming Air Quality Standards & Regulations Section 25, but actual emissions are negligible
- \star $\;$ values are based on maximum tested NO_{x} emission rates

TABLE I Solvay Minerals Soda Ash Plant Pollutant Emission Rates (pph)

### Rumber Name Particular ### Current Plant Emiss ### Current Plant Emiss 2a Ore Crusher Building Baghouse #1	Pollutants	
### Current Plant Emiss ### Core Reclaim Baghouse #1	Sulfur	Nitrogen
Ore Crusher Building Baghouse #1 1.60 Dore Reclaim Baghouse #1 0.20 Reclaim Baghouse #1 0.20 Product Silo Top Baghouse #1 1.40 Product Loadout Baghouse #1 1.20 Coal Crushing & Storage Baghouse 0.60 Coal Transfer Station Baghouse 0.60 Boiler Coal Bunker Baghouse 0.60 DR-1 & 2 Product Dryers Scrubber 6.80 DR-1 & 2 Product Dryers Scrubber 17.00 "A" & "B" Gas Fired Ore Calciners 22.30 "H Coal Boiler Scrubber & Proptr 17.00 Boiler Flyash Silo Vent Baghouse 0.30 Alkaten Crushing Area Baghouse 1.00 DR-3 Alkaten Product Dryer Baghouse 1.00 DR-4 Fld Bed Product Dryer Scrubber 2.90 Caustic #1 Lime Bin Baghouse 0.20 Caustic #2 Lime Bin Baghouse 0.20 Sulfite Sulfur Burner Scrubber 1.40 Sulfite Product Dryer Scrubber 1.40 Sulfite #2 Product Bin Baghouse 0.20 Sulfite #1 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #3 Product Bin Baghouse 0.10 Sulfite #4 Product Bin Baghouse 0.10 Sulfite #4 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #3 Product Bin Baghouse 0.10 Sulfite #4 Product Bin Baghouse 0.10 Sulfite #1 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #3 Product Bin Baghouse 0.10 Sulfite #1 Product Bin Baghouse 0.10 Sulfite #1 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite Product Loadout Baghouse 0.10 Sulfite Product Loadout Baghouse 0.10 "C" Train Ore Crusher Baghouse 0.90 #4 Caustic Lime Delivery Baghouse 0.90 #4 "C" Train Train Dissolver Scrubber 0.00 "C" Train Dryer Area Baghouse 1.20 #4 "C" Train Train Dissolver Scrubber 0.00 "C" Train Dryer Area Baghouse 1.20 #4 "C" Train Dryer Area Baghouse 1.20 #5 Product Silo Reclaim Baghouse 1.20 #5 Product Silo Reclaim Baghouse 1.20 #6 "C" Train Dryer Area Baghouse 1.20 #6 "C" Train Dryer Are	te Dioxide	Oxides
Ore Crusher Building Baghouse #1 1.60 Dore Reclaim Baghouse #1 0.20 A Product Silo Top Baghouse #1 0.30 Product Silo Reclaim Baghouse #1 1.40 Product Loadout Baghouse #1 1.20 Coal Crushing & Storage Baghouse 0.60 Coal Transfer Station Baghouse 0.60 Boiler Coal Bunker Baghouse 1.00 Boiler Coal Bunker Baghouse 1.00 DR-1 & 2 Product Dryers Scrubber 6.80 Dryer Area Housekeeping Baghouse 0.90 "A" & "B" Gas Fired Ore Calciners 22.30 #1 Coal Boiler Scrubber & Proptr 17.00 Boiler Flyash Silo Vent Baghouse 1.00 DR-3 Alkaten Product Dryer Baghouse 1.00 DR-3 Alkaten Product Dryer Baghouse 1.00 DR-4 Fld Bed Product Dryer Scrubber 2.90 Caustic #1 Lime Bin Baghouse 0.20 Caustic #2 Lime Bin Baghouse 0.20 Caustic Evaporator Brmtrc Condenser 3.00 Sulfite Sulfur Burner Scrubber 1.40 Sulfite Product Dryer Scrubber 1.40 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #3 Product Bin Baghouse 0.10 Sulfite #4 Product Bin Baghouse 0.10 Sulfite Product Bagging Baghouse 0.10 Sulfite #1 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #2 Product Bin Baghouse 0.10 Sulfite #3 Product Bin Baghouse 0.10 Sulfite Product Loadout Baghouse 0.10 Sulfite Product Loadout Baghouse 0.10 Sulfite Product Loadout Baghouse 0.10 Sulfite Sulfur Tank Storage Vent 0.30 #4 Caustic Lime Delivery Baghouse 0.90 #5 Product Silo Top Baghouse 1.20 #5 Product Silo Top Baghouse 1.20 #5 Product Silo Reclaim Baghouse 1.20 #6 Product Sil		
2b Ore Reclaim Baghouse #1 0.20 6a Product Silo Top Baghouse #1 1.40 6b Product Loadout Baghouse #1 1.40 7 Product Loadout Baghouse #1 1.20 1 Coal Crushing & Storage Baghouse 0.60 11 Coal Transfer Station Baghouse 1.00 12 Boiler Coal Bunker Baghouse 1.00 15 DR-1 & 2 Product Dryers Scrubber 6.80 16 Dryer Area Housekeeping Baghouse 0.90 17 "A" & "B" Gas Fired Ore Calciners 22.30 18 #1 Coal Boiler Scrubber & Proptr 17.00 19 #2 Coal Boiler Scrubber & Proptr 17.00 24 Boiler Flyash Silo Vent Baghouse 0.30 25 Alkaten Crushing Area Baghouse 1.00 26 DR-3 Alkaten Product Dryer Baghouse 1.00 27 Alkaten Product Bagging Baghouse 0.50 28 DR-4 Fld Bed Product Dryer Scrubber 2.90 30 Caustic #1 Lime Bin Baghouse 0.20 31 Caustic #2 Lime Bin Baghouse 0.20 32 Caustic Evaporator Brmtrc Condenser 0.00 33 Sulfite Sulfur Burner Scrubber 1.40 34 Sulfite Crystallizer 0.00 35 Sulfite #1 Product Bin Baghouse 0.10 36 Sulfite #1 Product Bin Baghouse 0.10 37 Sulfite #2 Product Bin Baghouse 0.10 38 Sulfite #3 Product Bin Baghouse 0.10 39 Sulfite #4 Product Bin Baghouse 0.10 30 Sulfite #2 Product Bin Baghouse 0.10 31 Sulfite Froduct Bin Baghouse 0.10 32 Sulfite #2 Product Bin Baghouse 0.10 33 Sulfite #3 Product Bin Baghouse 0.10 34 Sulfite #1 Product Bin Baghouse 0.10 39 Sulfite #2 Product Bin Baghouse 0.10 30 Sulfite Froduct Bagging Baghouse 0.10 31 Sulfite Froduct Bagging Baghouse 0.10 32 Sulfite #1 Product Bin Baghouse 0.10 33 Sulfite #1 Product Bin Baghouse 0.10 34 Sulfite Product Bagging Baghouse 0.10 35 Sulfite Froduct Bagging Baghouse 0.10 36 Sulfite Froduct Bagging Baghouse 0.10 37 Sulfite Froduct Bagging Baghouse 0.10 38 Sulfite Froduct Bagging Baghouse 0.10 39 Sulfite #1 Product Bin Baghouse 0.10 40 Sulfite Product Bagging Baghouse 0.10 41 Sulfite Froduct Bagging Baghouse 0.10 42 Sulfite Boll Froduct Bagging Baghouse 0.10 43 Sulfite Boll Froduct Bagging Baghouse 0.10 44 Sulfite Froduct Bagging Baghouse 0.10 45 Sulfite Boll Froduct Bagging Baghouse 0.10 46 Sulfite Boll Froduct Bagging Baghouse 0.10 47 C" Train Ore Crusher Baghouse 0.2	ion Sources"	
6a Product Silo Top Baghouse #1 0.30 6b Product Silo Reclaim Baghouse #1 1.40 7 Product Loadout Baghouse #1 1.20 10 Coal Crushing & Storage Baghouse 0.60 11 Coal Transfer Station Baghouse 0.60 12 Boiler Coal Bunker Baghouse 1.00 13 DR-1 & 2 Product Dryers Scrubber 1.00 15 DR-1 & 2 Product Dryers Scrubber 2.20 16 Dryer Area Housekeeping Baghouse 2.30 17 "A" & "B" Gas Fired Ore Calciners 2.30 18 #1 Coal Boiler Scrubber & Proptr 17.00 24 Boiler Flyash Silo Vent Baghouse 1.00 25 Alkaten Crushing Area Baghouse 1.00 26 DR-3 Alkaten Product Dryer Baghouse 1.00 27 Alkaten Product Bagging Baghouse 1.00 28 DR-4 Fld Bed Product Dryer Scrubber 2.90 30 Caustic #1 Lime Bin Baghouse 1.20 31 Caustic #2 Lime Bin Baghouse 1.20 32 Caustic Evaporator Brmtrc Condenser 1.20 33 Sulfite Sulfur Burner Scrubber 1.40 34 Sulfite Crystallizer 1.40 35 Sulfite #1 Product Bin Baghouse 1.40 36 Sulfite #2 Product Bin Baghouse 1.40 37 Sulfite #3 Product Bin Baghouse 1.40 38 Sulfite #4 Product Bin Baghouse 1.40 39 Sulfite #4 Product Bin Baghouse 1.40 30 Sulfite #4 Product Bin Baghouse 1.40 31 Sulfite Product Bagging Baghouse 1.40 32 Sulfite #4 Product Bin Baghouse 1.40 33 Sulfite #4 Product Bin Baghouse 1.40 34 Sulfite Product Bagging Baghouse 1.40 39 Sulfite #4 Product Bin Baghouse 1.40 30 Sulfite Product Loadout Baghouse 1.40 31 Sulfite Product Loadout Baghouse 1.40 42 Sulfite Forduct Loadout Baghouse 1.40 43 Sulfite Product Bagging Baghouse 1.40 44 Caustic Lime Delivery Baghouse 1.40 45 Sulfite Product Bagging Baghouse 1.40 46 "C" Train Ore Crusher Baghouse 1.40 47 "C" Train Ore Crusher Baghouse 1.40 48 "C" Train Dryer Area Baghouse 1.40 49 "C" Train Dryer Area Baghouse 1.40 40 "C" Train Dryer Area Baghouse 1.40 41 "C" Train Dryer Area Baghouse 1.40 42 Product Silo Top Baghouse #2 43 Product Silo Top Baghouse #2 44 Product Silo Reclaim Baghouse 1.40 45 Product Silo Reclaim Baghouse 1.41 46 Activated Carbon Bin Vent 1.41 46 Perlite Bin Vent Baghouse 1.41	n.a.	n.a.
Froduct Silo Reclaim Baghouse #1 Product Loadout Baghouse #1 Coal Crushing & Storage Baghouse Coal Transfer Station Baghouse Boiler Coal Bunker Baghouse DR-1 & 2 Product Dryers Scrubber Dryer Area Housekeeping Baghouse Proper Area Housekeeping Baghouse Proper Area Housekeeping Baghouse Riber Coal Boiler Scrubber & Proper Boiler Flyash Silo Vent Baghouse Alkaten Crushing Area Baghouse DR-3 Alkaten Product Dryer Baghouse Alkaten Product Bagging Baghouse DR-4 Fld Bed Product Dryer Scrubber Caustic #1 Lime Bin Baghouse Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Sulfite Sulfur Burner Scrubber Sulfite Product Dryer Scrubber Sulfite #1 Product Bin Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Alkaten Transloading Baghouse TC" Train Ore Crusher Baghouse Alkaten Transloading Baghouse TC" Train Train Dissolver Scrubber "C" Train Dryer Area Baghouse Tobact Silo Top Baghouse #2 Product Silo Reclaim Baghouse Activated Carbon Bin Vent Perlite Bin Vent Baghouse	n.a.	n.a.
7 Product Loadout Baghouse #1 10 Coal Crushing & Storage Baghouse 11 Coal Transfer Station Baghouse 12 Boiler Coal Bunker Baghouse 13 DR-1 & 2 Product Dryers Scrubber 14 Boiler Coal Bunker Baghouse 15 DR-1 & 2 Product Dryers Scrubber 16 Dryer Area Housekeeping Baghouse 17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Prcptr 19 #2 Coal Boiler Scrubber & Prcptr 10 #2 Boiler Flyash Silo Vent Baghouse 10 BR-3 Alkaten Product Dryer Baghouse 11 Caustic #1 Lime Bin Baghouse 12 Caustic #2 Lime Bin Baghouse 13 Caustic #2 Lime Bin Baghouse 14 Sulfite Sulfur Burner Scrubber 15 Sulfite Sulfur Burner Scrubber 16 Sulfite #1 Product Bin Baghouse 17 Sulfite #2 Product Bin Baghouse 18 Sulfite #3 Product Bin Baghouse 19 Sulfite #4 Product Bin Baghouse 10 Sulfite #4 Product Bin Baghouse 10 Sulfite Product Loadout Baghouse 10 Sulfite Product Loadout Baghouse 10 Sulfite Sulfur Tank Storage Vent 10 Caustic Lime Delivery Baghouse 10 Alkaten Transloading Baghouse 10 Alkaten Transloading Baghouse 10 C" Train Ore Crusher Baghouse 10 C" Train Train Dissolver Scrubber 10 C" Train Train Dissolver Scrubber 11 DR-5 Product Dryer Precipitator 12 Product Silo Top Baghouse #2 12 Product Silo Reclaim Baghouse 12 Product Silo Reclaim Baghouse 13 Product Silo Reclaim Baghouse 14 Prolite Bin Vent Baghouse 15 Prolite Bin Vent Baghouse 16 Activated Carbon Bin Vent 16 Perlite Bin Vent Baghouse	n.a.	n.a.
Coal Crushing & Storage Baghouse Coal Transfer Station Baghouse Coal Transfer Station Baghouse Coal Bunker Baghouse Coal Bunker Baghouse Coal Bunker Baghouse Coal Bunker Baghouse Coal Borer Area Housekeeping Baghouse Coal Boiler Scrubber & Proptr Coal Boiler Flyash Silo Vent Baghouse Coal Stilo Evaporator Brmtro Condenser Coal Stilo Top Baghouse Coal Stilo Top Baghouse Coal Stilo Top Baghouse Coal Stilo Top Baghouse Coal Stilo Eval Baghouse Coal Stilo Top Cal Storage Baghouse Coal Stilo Top Cal Storage Baghouse	n.a.	n.a.
Coal Transfer Station Baghouse 14 Boiler Coal Bunker Baghouse 15 DR-1 & 2 Product Dryers Scrubber 16 Dryer Area Housekeeping Baghouse 17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Proptr 19 #2 Coal Boiler Scrubber & Proptr 24 Boiler Flyash Silo Vent Baghouse 25 Alkaten Crushing Area Baghouse 26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 29 Caustic #1 Lime Bin Baghouse 30 Caustic #2 Lime Bin Baghouse 31 Caustic Evaporator Brmtrc Condenser 32 Sulfite Sulfur Burner Scrubber 33 Sulfite Product Dryer Scrubber 34 Sulfite Product Bin Baghouse 35 Sulfite #2 Product Bin Baghouse 36 Sulfite #3 Product Bin Baghouse 37 Sulfite #4 Product Bin Baghouse 38 Sulfite Product Bagging Baghouse 39 Sulfite Product Bagging Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Bagging Baghouse 42 Sulfite Product Bagging Baghouse 43 Sulfite Product Bagging Baghouse 44 Sulfite Product Loadout Baghouse 45 Sulfite Forduct Loadout Baghouse 46 Sulfite HCl Tank Vent 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Reclaim Baghouse 53 Product Silo Reclaim Baghouse 54 Activated Carbon Bin Vent 65 Perlite Bin Vent Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse	n.a.	n.a.
Boiler Coal Bunker Baghouse 1.00 15 DR-1 & 2 Product Dryers Scrubber 6.80 16 Dryer Area Housekeeping Baghouse 17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Prcptr 19 #2 Coal Boiler Scrubber & Prcptr 17 00 19 #2 Coal Boiler Scrubber & Prcptr 17 00 24 Boiler Flyash Silo Vent Baghouse 25 Alkaten Crushing Area Baghouse 26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 30 Caustic #1 Lime Bin Baghouse 31 Caustic Evaporator Brmtrc Condenser 32 Caustic Evaporator Brmtrc Condenser 33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Bagging Baghouse 42 Sulfite #1 Product Bin Baghouse 43 Sulfite #2 Product Bin Baghouse 44 Sulfite Product Bagging Baghouse 45 Sulfite Froduct Bagging Baghouse 46 Sulfite Froduct Bagging Baghouse 47 Sulfite Product Bagging Baghouse 48 Sulfite Bufur Tank Storage Vent 49 Sulfite Fooduct Loadout Baghouse 40 Sulfite Sulfur Tank Storage Vent 41 Caustic Lime Delivery Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Silo Reclaim Baghouse 52 Product Silo Reclaim Baghouse 63 Activated Carbon Bin Vent 64 Activated Carbon Bin Vent 65 Perlite Bin Vent Baghouse 60 Activated Carbon Bin Vent 60 1.1	n.a.	n.a.
15 DR-1 & 2 Product Dryers Scrubber 16 Dryer Area Housekeeping Baghouse 17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Prcptr 19 #2 Coal Boiler Scrubber & Prcptr 10 Coal Scrubber & Prcptr 10 Product Bagging Baghouse 10 DR-3 Alkaten Product Dryer Baghouse 10 Caustic #1 Lime Bin Baghouse 10 Caustic #2 Lime Bin Baghouse 10 Caustic #2 Lime Bin Baghouse 10 Caustic Evaporator Brmtrc Condenser 10 Sulfite Sulfur Burner Scrubber 10 Sulfite Product Dryer Scrubber 11 Product Bin Baghouse 12 Sulfite #1 Product Bin Baghouse 13 Sulfite #2 Product Bin Baghouse 14 Sulfite #3 Product Bin Baghouse 15 Sulfite #4 Product Bin Baghouse 16 Sulfite Product Bagging Baghouse 17 Sulfite Product Bagging Baghouse 18 Sulfite Froduct Loadout Baghouse 19 Sulfite HCl Tank Vent 10 Sulfite Sulfur Tank Storage Vent 10 Caustic Lime Delivery Baghouse 10 Caustic Train Ore Crusher Baghouse 10 Caustic Train Dryer Area Baghouse 10 Caustic Train Dryer Area Baghouse 11 DR-5 Product Dryer Precipitator 10 C" Train Train Dissolver Scrubber 11 DR-5 Product Silo Reclaim Baghouse 12 Caustic Product Silo Reclaim Baghouse 13 Caustic Product Storage Baghouse 14 Caustivated Carbon Bin Vent 16 Perlite Bin Vent Baghouse 10 Cut	n.a.	n.a.
16 Dryer Area Housekeeping Baghouse 17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Prcptr 19 #2 Coal Boiler Scrubber & Prcptr 17.00 24 Boiler Flyash Silo Vent Baghouse 25 Alkaten Crushing Area Baghouse 26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 29 Caustic #1 Lime Bin Baghouse 20 Caustic #2 Lime Bin Baghouse 21 Caustic Evaporator Brmtrc Condenser 22 Sulfite Sulfur Burner Scrubber 23 Sulfite Froduct Dryer Scrubber 24 Sulfite Product Dryer Scrubber 25 Sulfite #1 Product Bin Baghouse 26 Sulfite #2 Product Bin Baghouse 27 Sulfite #4 Product Bin Baghouse 28 Sulfite #4 Product Bin Baghouse 29 Sulfite #4 Product Bin Baghouse 30 Sulfite #0 Product Bin Baghouse 31 Sulfite Product Bin Baghouse 32 Sulfite #4 Product Bin Baghouse 33 Sulfite #4 Product Bin Baghouse 34 Sulfite #0 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Top Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 67 Activated Carbon Bin Vent 68 Perlite Bin Vent Baghouse	n.a.	n.a.
17 "A" & "B" Gas Fired Ore Calciners 18 #1 Coal Boiler Scrubber & Prcptr 17.00 19 #2 Coal Boiler Scrubber & Prcptr 24 Boiler Flyash Silo Vent Baghouse 25 Alkaten Crushing Area Baghouse 26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 29 Caustic #1 Lime Bin Baghouse 30 Caustic #2 Lime Bin Baghouse 31 Caustic Evaporator Brmtrc Condenser 32 Sulfite Sulfur Burner Scrubber 33 Sulfite Froduct Dryer Scrubber 34 Sulfite Product Dryer Scrubber 35 Sulfite #1 Product Bin Baghouse 36 Sulfite #2 Product Bin Baghouse 37 Sulfite #3 Product Bin Baghouse 38 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Bagging Baghouse 42 Sulfite Trank Vent 43 Sulfite Burner Scrubber 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse #2 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Top Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 67 Activated Carbon Bin Vent 68 Perlite Bin Vent Baghouse 60 O.15	n.a.	n.a.
#1 Coal Boiler Scrubber & Proptr #2 Coal Boiler Scrubber & Proptr #3 Flyash Silo Vent Baghouse 5 Alkaten Crushing Area Baghouse 6 DR-3 Alkaten Product Dryer Baghouse 7 Alkaten Product Bagging Baghouse 8 DR-4 Fld Bed Product Dryer Scrubber 8 Caustic #1 Lime Bin Baghouse 9 Caustic #2 Lime Bin Baghouse 9 Caustic Evaporator Brmtrc Condenser 9 Sulfite Sulfur Burner Scrubber 9 Sulfite Product Dryer Scrubber 9 Sulfite #1 Product Bin Baghouse 9 Sulfite #2 Product Bin Baghouse 9 Sulfite #3 Product Bin Baghouse 9 Sulfite #4 Product Bin Baghouse 9 Sulfite #4 Product Bin Baghouse 9 Sulfite #4 Product Bin Baghouse 9 Sulfite Product Bin Baghouse 10 Sulfite Froduct Loadout Baghouse 11 Sulfite Found Bagging Baghouse 12 Sulfite Sulfur Tank Storage Vent 13 Sulfite Sulfur Tank Storage Vent 14 Caustic Lime Delivery Baghouse 15 Alkaten Transloading Baghouse 16 #2 Ore Transfer Baghouse 17 "C" Train Ore Crusher Baghouse 18 "C" Ore Calciner Precipitator 19 "C" Train Train Dissolver Scrubber 10 "C" Train Train Dissolver Scrubber 11 C" Train Train Dissolver Scrubber 12 Product Silo Top Baghouse #2 13 Product Silo Reclaim Baghouse #2 14 Product Silo Reclaim Baghouse #2 15 Product Silo Reclaim Baghouse #2 16 Activated Carbon Bin Vent 17 Onton Train Dissolver 18 Perlite Bin Vent Baghouse #2 19 Caustic Baghouse #2 20 Caustic Baghouse #2 21 Caustic Baghouse #2 22 Caustic Baghouse #2 23 Product Silo Reclaim Baghouse #2 24 Activated Carbon Bin Vent 25 Perlite Bin Vent Baghouse #2	n.a.	n.a.
19 #2 Coal Boiler Scrubber & Proptr 24 Boiler Flyash Silo Vent Baghouse 25 Alkaten Crushing Area Baghouse 26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 30 Caustic #1 Lime Bin Baghouse 31 Caustic #2 Lime Bin Baghouse 32 Caustic Evaporator Brmtrc Condenser 33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Bagging Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 41 CR-5 Product Dryer Precipitator 42 Product Silo Top Baghouse #2 53 Product Silo Top Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 60 Octobre Calciner Precipitator 60 Perlite Bin Vent Baghouse 61 Octobre Baghouse 62 Activated Carbon Bin Vent 63 Perlite Bin Vent Baghouse 60 Octobre Calciner Precipitator 60 Perlite Bin Vent Baghouse 60 Octobre Calciner Baghouse 61 Octobre Calciner Baghouse 62 Octobre Calciner Baghouse 63 Octobre Calciner Baghouse 64 Octobre Calciner Baghouse 65 Octobre Calciner Baghouse 66 Octobre Calciner Baghouse 67 Octobre Calciner Baghouse 68 Octobre Calciner Baghouse 69 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 61 Octobre Calciner Baghouse 62 Octobre Calciner Baghouse 63 Octobre Calciner Baghouse 64 Octob	0.00	20.00
Alkaten Crushing Area Baghouse DR-3 Alkaten Product Dryer Baghouse RDR-4 Fld Bed Product Dryer Scrubber Caustic #1 Lime Bin Baghouse Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Sulfite Sulfur Burner Scrubber Sulfite #1 Product Bin Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite #0 Sulfite Bin Baghouse Austifite Product Bin Baghouse Life #1 Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Life #4 Sulfite Bin Baghouse Life #4 Sulfite Bin Baghouse Life #4 Sulfite Bin Baghouse Life Foduct Loadout Baghouse Life Foduct Loadout Baghouse Life Sulfite Forduct Loadout Baghouse Life Caustic Lime Delivery Baghouse Life HCl Tank Vent Laustic Lime Delivery Baghouse Life #2 Ore Transfer Baghouse Life #2 Ore Calciner Precipitator Life #3 C" Train Ore Crusher Baghouse Life #4 Product Dryer Precipitator Life Train Dryer Area Baghouse Life Train Dryer Area Baghouse Life Product Silo Top Baghouse #2 Life Foduct Silo Reclaim Baghouse #2 Life Foduct Silo Reclaim Baghouse Life Activated Carbon Bin Vent Life Perlite Bin Vent Baghouse Life Pe	70.00	245.00
Alkaten Crushing Area Baghouse DR-3 Alkaten Product Dryer Baghouse Alkaten Product Bagging Baghouse DR-4 Fld Bed Product Dryer Scrubber Caustic #1 Lime Bin Baghouse Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Sulfite Sulfur Burner Scrubber Sulfite Product Dryer Scrubber Sulfite #1 Product Bin Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite Product Bin Baghouse Sulfite Product Bin Baghouse Lime Caustic Lime Delivery Baghouse Lime Delivery Baghouse Lime Caustic Lime Delivery Baghouse Lime Caustic Lime Delivery Baghouse Lime Caustic Lime Delivery Baghouse Lime Crusher	70.00	245.00
26 DR-3 Alkaten Product Dryer Baghouse 27 Alkaten Product Bagging Baghouse 28 DR-4 Fld Bed Product Dryer Scrubber 30 Caustic #1 Lime Bin Baghouse 31 Caustic #2 Lime Bin Baghouse 32 Caustic Evaporator Brmtrc Condenser 33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 40 Sulfite Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Tryer Area Baghouse 42 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 60 Activated Carbon Bin Vent 61 Perlite Bin Vent Baghouse 60 Octobre Calciner Baghouse 60 Activated Carbon Bin Vent 61 Perlite Bin Vent Baghouse 60 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 60 Activated Carbon Bin Vent 61 Perlite Bin Vent Baghouse 61 Octobre Calciner Baghouse 62 Activated Carbon Bin Vent 63 Perlite Bin Vent Baghouse 60 Octobre Calciner Baghouse 61 Octobre Calciner Baghouse 62 Octobre Calciner Baghouse 63 Octobre Calciner Baghouse 64 Octobre Calciner Baghouse 65 Octobre Calciner Baghouse 66 Octobre Calciner Baghouse 67 Octobre Calciner Baghouse 68 Octobre Calciner Baghouse 69 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 60 Octobre Calciner Baghouse 61	n.a.	n.a.
Alkaten Product Bagging Baghouse DR-4 Fld Bed Product Dryer Scrubber Caustic #1 Lime Bin Baghouse Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Sulfite Sulfur Burner Scrubber Sulfite Product Dryer Scrubber Sulfite #1 Product Bin Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite Product Bagging Baghouse Sulfite Product Bagging Baghouse Sulfite Product Loadout Baghouse Sulfite Forduct Loadout Baghouse Laustic Lime Delivery Baghouse Alkaten Transloading Baghouse Alkaten Transloading Baghouse "C" Train Ore Crusher Baghouse "C" Train Train Dissolver Scrubber "C" Train Train Dissolver Scrubber Curc Train Dryer Area Baghouse "C" Train Dryer Area Baghouse "C" Troduct Sin Raghouse Laustic Lime Delivery Baghouse "C" Train Train Dissolver Scrubber Curc Train Train Dissolver Scrubber Curc Train Dryer Area Baghouse Laustic Sin Reclaim Baghouse Activated Carbon Bin Vent Laustic Sin Vent Baghouse	n.a.	n.a.
28 DR-4 Fld Bed Product Dryer Scrubber 30 Caustic #1 Lime Bin Baghouse 31 Caustic #2 Lime Bin Baghouse 32 Caustic Evaporator Brmtrc Condenser 33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 41 CP Ore Calciner Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 67 Perlite Bin Vent Baghouse 68 Activated Carbon Bin Vent 69 Occupance Scrubber 60 Occupance Scrubber 60 Occupance Scrubber 60 Occupance Scrubber 60 Product Storage Baghouse 61 Occupance Scrubber 62 Activated Carbon Bin Vent 63 Perlite Bin Vent Baghouse	n.a.	n.a.
Caustic #1 Lime Bin Baghouse Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Caustic Burner Scrubber Caustic Baghouse Caustic Bin Baghouse Caustic Bagging Baghouse Caustic Evaporator Brmtrc Condenser Caustic Lime Delivery Baghouse Caustic Core Crusher Baghouse Caustic Core Crusher Baghouse Caustic Core Crusher Baghouse Caustic Core Calciner Precipitator Caustic Train Ore Crusher Baghouse Caustic Core Calciner Precipitator Caustic Cor	n.a.	n.a.
Caustic #2 Lime Bin Baghouse Caustic Evaporator Brmtrc Condenser Sulfite Sulfur Burner Scrubber Sulfite Crystallizer Sulfite Product Dryer Scrubber Sulfite #1 Product Bin Baghouse Sulfite #2 Product Bin Baghouse Sulfite #3 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite #4 Product Bin Baghouse Sulfite Product Bin Baghouse Sulfite Product Bagging Baghouse Sulfite Product Loadout Baghouse Sulfite HCl Tank Vent Sulfite Sulfur Tank Storage Vent A Sulfite Sulfur Tank Storage Vent A Caustic Lime Delivery Baghouse Alkaten Transloading Baghouse Alkaten Transloading Baghouse "C" Train Ore Crusher Baghouse "C" Train Train Dissolver Scrubber "C" Train Train Dissolver Scrubber "C" Train Train Dissolver Scrubber "C" Train Dryer Area Baghouse "C" Train Dryer Area Baghouse "C" Train Dryer Precipitator Sulfite Silo Top Baghouse #2 T-200 Product Storage Baghouse Activated Carbon Bin Vent Cultivated Carbon Bin Vent	n.a.	n.a.
Caustic Evaporator Brmtrc Condenser 33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 40 Sulfite Product Bin Baghouse 41 Sulfite Product Bagging Baghouse 42 Sulfite Product Loadout Baghouse 43 Sulfite Sulfur Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 64 Activated Carbon Bin Vent 65 Perlite Bin Vent Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 Octobre 1.20 9.00 9	n.a.	n.a.
33 Sulfite Sulfur Burner Scrubber 34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 41 Sulfur Silo Top Baghouse #2 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 O.16	n.a.	n.a.
34 Sulfite Crystallizer 35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 60 O.10	n.a.	n.a.
35 Sulfite Product Dryer Scrubber 36 Sulfite #1 Product Bin Baghouse 37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 O.16	0.40	1.50
36 Sulfite #1 Product Bin Baghouse 0.10 37 Sulfite #2 Product Bin Baghouse 0.10 38 Sulfite #3 Product Bin Baghouse 0.10 39 Sulfite #4 Product Bin Baghouse 0.10 40 Sulfite Product Bagging Baghouse 0.30 41 Sulfite Product Loadout Baghouse 0.40 42 Sulfite HCl Tank Vent n.a. 43 Sulfite Sulfur Tank Storage Vent n.a. 44 Caustic Lime Delivery Baghouse 0.90 45 Alkaten Transloading Baghouse 0.20 46 #2 Ore Transfer Baghouse 1.20 47 "C" Train Ore Crusher Baghouse 5.10 48 "C" Ore Calciner Precipitator 9.30 49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.40 55 Recycle/Reclaim Baghouse 0.40 66 Activated Carbon Bin Vent 0.11 66 Perlite Bin Vent Baghouse 0.10	n.a.	n.a.
37 Sulfite #2 Product Bin Baghouse 38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse 64 T-200 Product Storage Baghouse 65 Activated Carbon Bin Vent 66 Perlite Bin Vent Baghouse 60 O.10	n.a.	n.a.
38 Sulfite #3 Product Bin Baghouse 39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 O.10	n.a.	n.a.
39 Sulfite #4 Product Bin Baghouse 40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 O.10	n.a.	n.a.
40 Sulfite Product Bagging Baghouse 41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 66 Perlite Bin Vent Baghouse 60 O.30 6	n.a.	n.a.
41 Sulfite Product Loadout Baghouse 42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 60 O.40	n.a.	n.a.
42 Sulfite HCl Tank Vent 43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 67 Perlite Bin Vent Baghouse 68 O.10	n.a.	n.a.
43 Sulfite Sulfur Tank Storage Vent 44 Caustic Lime Delivery Baghouse 45 Alkaten Transloading Baghouse 46 #2 Ore Transfer Baghouse 47 "C" Train Ore Crusher Baghouse 48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 66 Activated Carbon Bin Vent 66 Perlite Bin Vent Baghouse 60 O.10	n.a.	n.a.
44 Caustic Lime Delivery Baghouse 0.90 45 Alkaten Transloading Baghouse 0.20 46 #2 Ore Transfer Baghouse 1.20 47 "C" Train Ore Crusher Baghouse 5.10 48 "C" Ore Calciner Precipitator 9.30 49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.19 55 Recycle/Reclaim Baghouse 0.19 66 Activated Carbon Bin Vent 0.11 66 Perlite Bin Vent Baghouse 0.19	n.a.	n.a.
45 Alkaten Transloading Baghouse 0.20 46 #2 Ore Transfer Baghouse 1.20 47 "C" Train Ore Crusher Baghouse 5.10 48 "C" Ore Calciner Precipitator 9.30 49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.10 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.11	n.a.	n.a.
46 #2 Ore Transfer Baghouse 1.20 47 "C" Train Ore Crusher Baghouse 5.10 48 "C" Ore Calciner Precipitator 9.30 49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.10 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.10		n.a.
47 "C" Train Ore Crusher Baghouse 5.10 48 "C" Ore Calciner Precipitator 9.30 49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.10 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.10		n.a.
48 "C" Ore Calciner Precipitator 49 "C" Train Train Dissolver Scrubber 50 "C" Train Dryer Area Baghouse 51 DR-5 Product Dryer Precipitator 52 Product Silo Top Baghouse #2 53 Product Silo Reclaim Baghouse #2 54 T-200 Product Storage Baghouse 55 Recycle/Reclaim Baghouse 62 Activated Carbon Bin Vent 63 Perlite Bin Vent Baghouse 0.10		n.a.
49 "C" Train Train Dissolver Scrubber 0.00 50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.10 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.10		n.a.
50 "C" Train Dryer Area Baghouse 2.10 51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.10 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.10		30.60
51 DR-5 Product Dryer Precipitator 4.80 52 Product Silo Top Baghouse #2 0.50 53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.19 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.19		n.a.
52 Product Silo Top Baghouse #2 0.56 53 Product Silo Reclaim Baghouse #2 1.16 54 T-200 Product Storage Baghouse 0.16 55 Recycle/Reclaim Baghouse 0.46 62 Activated Carbon Bin Vent 0.16 63 Perlite Bin Vent Baghouse 0.16		n.a.
53 Product Silo Reclaim Baghouse #2 1.10 54 T-200 Product Storage Baghouse 0.13 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.13 63 Perlite Bin Vent Baghouse 0.13		18.00
54 T-200 Product Storage Baghouse 0.19 55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.19 63 Perlite Bin Vent Baghouse 0.19		n.a.
55 Recycle/Reclaim Baghouse 0.40 62 Activated Carbon Bin Vent 0.11 63 Perlite Bin Vent Baghouse 0.11		n.a.
62 Activated Carbon Bin Vent 0.13 63 Perlite Bin Vent Baghouse 0.13		n.a.
63 Perlite Bin Vent Baghouse 0.1		n.a.
		n.a.
		n.a.
64 Sulfite Blending #2 Baghouse 0.19		n.a.
65 Sulfite Blending #1 Baghouse 0.00		n.a.
66 Carbon/Perlite Additive Scrubber 0.5		n.a.
67 Bottom Ash Baghouse 0.4		<u>n.a.</u>
Total, Current Plant Sources 106.99 (468.5		560.10 (2453.2 5

TABLE I (continued)
Solvay Minerals Soda Ash Plant Pollutant Emission Rates (pph)

	_		Pollutants	
Source	Equipment		Sulfur	Nitrogen
Number		articulate	Dioxide	Oxides
2131127 -				
	"Combined Products Bagg	ing Facility I	mission Sources	<i>'</i>
68 Trona	Silo/Bagging Machine Baghouse	0.41	n.a.	n.a.
	Ash Silo/Bagging Machine Baghou	ıse 0.41	n.a.	n.a.
	e Silo/Bagging Machine Baghous		n.a.	n.a.
	lo/Bagging Machine Baghouse	0,41	n.a.	n.a.
	Bagging Project	1.64	0.00	0.00
,	33 3 3	(7.2 TPY)	(0.0 TPY)	(0.0 TPY)
			_ , , , ,	
	"Metabisulfite (MBS) Project Sour	ce Emissions"	
72 MBS So	oda Ash Feed Bin Vent Filter	0.14	n.a.	n.a.
	roduct Dryer	1.20	0,77	0.15
	Calciner Changes	1.34	0.77	0.15
,	3	(5.9 TPY)	(3.4 TPY)	(0.7 TPY)
	"AQD #48 Calcir	ner Burner Rep	lacement"	
48 "C" Oı	re Calciner Precipitator {rmv}	-9.30	n.a.	-30.60
	re Calciner Precipitator {add}	9.30	n.a.	10.00
	Calciner Changes	0.00	0.00	-20.60
Subcocar, C	calciner changes	(0.0 TPY)	(0.0 TPY)	(-90.2 TPY)
	#30D 15# Pro	-Heater Instal	lation"	
	"AQD 15# Fle	-neacer instar.	Iacion	
15 DR-1 8	& 2 Product Dryers {rmv}	-6.80	n.a.	n.a.
15 DR-1 8	© 2 Product Dryers {add}	6.80	n.a.	1.20
Subtotal, (Calciner Changes	0.00	0.00	1.20
		(0.0 TPY)	(0.0 TPY)	(5.3 TPY)
Grand Total	l, Plant Emissions	109.93	141.17	540.85
		(481.5 TPY)	(618.3 TPY)	(2368.9 TPY)

TABLE I OCI Trona Plant Pollutant Emission Rates (pph)

		Pollutants		
Source	Equipment		Sulfur	Nitrogen
Number		articulate	Dioxide	Oxides
*		_		
	"Current Plant Emi	ssion Sources	3 "	
DC-1	Waste Soda Ash Dissolver Baghouse	0.79	n.a.	n.a.
DC-3	#2 Ore Shaft Headframe Baghouse	1.11	n.a.	n.a.
DC-4	#2 Ore Shaft Housekeeping Baghouse	0.59	n.a.	n.a.
DC-5	Units 1-4 Ore Transfer Baghouse	1.39	n.a.	n.a.
DC-6	Crusher Building Housekeeping Baghouse	1.84	n.a.	n.a.
DC-7	Crusher Building Housekeeping Baghouse	1.90	n.a.	n.a.
DC-8	Crusher Building Housekeeping Baghouse	1.33	n.a.	n.a.
DC-9	Crusher Building Housekeeping Baghouse	0.77	n.a.	n.a.
DC-10	Crusher Building Housekeeping Baghouse	2.06	n.a.	n.a.
DC-11	Units 1-2 Ore Bins Housekeeping Baghou	se 0.48	n.a.	n.a.
DC-12	Units 1-2 Ore Bins Housekeeping Baghou	se 1.69	n.a.	n.a.
DC-14	Units 3-4 Ore Bins Housekeeping Baghou	se 0.37	n.a.	n.a.
DC-19	Unit 5 Crusher System Baghouse	0.64	n.a.	n.a.
DC-22	Product Silo 7 Vent Baghouse	0.41	n.a.	n.a.
DC-36	Unit 5 Stockpile Reclaim Baghouse	0.73	n.a.	n.a.
DC-37	#3 Ore Shaft Ore Screening Baghouse	2.00	n.a.	, n.a.
DC-38	#3 Ore Shaft Headframe Baghouse	1.00	n.a.	n.a.
DC-92	Soda Ash Handling Gallery Baghouse	4.16	n.a.	n.a.
DC-93	Product Silos 1-6 Vent Baghouse	6.40	n.a.	n.a.
DC-94	Soda Ash Reclaim & Loadout Baghouse	10.00	n.a.	n.a.
DC-98	Soda Ash Reclaim & Loadout Baghouse	3.47	n.a.	n.a.
DC-100	Unit 5 Stockpile Reclaim Baghouse	1.19	n.a.	n.a.
RC-1	Unit 1 Rake Classifier Vent	0.16	n.a.	n.a.
ML-1	Unit 1 Dissolver Mill Vent	1.54	n.a.	n.a.
2RC-1	Unit 2 Rake Classifier Vent	0.04	n.a.	n.a.
2ML-1	Unit 2 Dissolver Mill Vent	2.00	n.a.	n.a.
3RC-1	Unit 3 Rake Classifier Vent	0.40	n.a.	n.a.
3ML-1	Unit 3 Dissolver Mill Vent	0.63	n.a.	n.a.
4RC-1	Unit 4 Rake Classifier Vent	0.12	n.a.	n.a.
4ML-1	Unit 4 Dissolver Mill Vent	0.92	n.a.	n.a.
5ML-1	Unit 5 Dissolver Mill Vent	0.77	n.a.	n.a.
ES-10	Unit 1&2 Ore Calciner Precipitator	30.60	n.a.	39.00
2ES-12	Unit 1&2 Soda Ash Dryer Precipitator	27.30	n.a.	5.30
	Unit 3 Ore Calciner Precipitator	29.20	n.a.	12.78
3ES-10	Unit 3 Soda Ash Dryer Precipitator	34.50	n.a.	2.40
3ES-12	Unit 3 Ore Calciner Wet Scrubber	37.70	n.a.	13.74
4ES-10	Unit 4 Soda Ash Dryer Wet Scrubber	37.90	n.a.	13.40
	Unit 4 Soda Ash Dryer Wet Scrubber	5.20	n.a.	n.a
	Unit 4 Soda Ash Dryel wet Scrubber	23.10	n.a.	5.22
5ES-10	Unit 5 Ore Calciner Precipitator	12.00	n.a.	13.65
5ES-12	Unit 5 Soda Ash Dryer Precipitator	2.81	n.a.	21.97
B-3	#3 Gas Fired Steam Boiler	7.50	n.a.	58.65
B-4	#4 Gas Fired Steam Boiler	8.62	n.a.	67.39
B-5	#5 Gas Fired Steam Boiler	7.50	n.a. n.a.	58.65
<u>B-6</u>	#6 Gas Fired Steam Boiler Otal, Current Plant Sources	314.83	0.00	312.15

(1379.0 TPY) (0.0 TPY) (1367.2 TPY)